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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,835	10/08/2004	Ta-Jung Su	13129-US-PA	5834
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100			EXAMINER	
			NGUYEN, THANH T	
ROOSEVELT R TAIPEI, 100	OAD, SECTION 2		ART UNIT	PAPER NUMBER
TAIWAN			2813	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	THS	03/20/2007	DAI	DED

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary 10/711.835 SUETAL.
Thanh T. Nguyen Thanh T. Nguyen 2813 Thanh T. Nguyen 2816 A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely fled after SN (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SN (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SN (6) MONTHS from the mailing date of this communication become ABANDONED (SO U.S. 0, § 133). Any reply received by the Circle later than there months after the mailing date of this communication, even if timely fleet, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication (s) filed on 02 January 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1,4-7,10-13 and 16-18 is/are pending in the application. 4a) Of the above claim(s) none is/are withdrawn from consideration. 5 Claim(s) 1,4-7,10-13, 16-18 is/are pending in the application. Claim(s) 1,4-7,10-13, 16-18 is/are rejected. Claim(s) 1,4-7,10-13, 16-18 is/are rejected. Claim(s) 1,4-7,10-13, 16-19 is/are rejected. Claim(s) 1,4-7,10-13, 16-19 is/are rejected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. Application Papers 10 The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicati
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFF 1.136(s). In no event, however, may a reply be timely filed to the provision of 37 CFF 1.136(s). In no event, however, may a reply be timely filed on the provision of 37 CFF 1.136(s). In no event, however, may a reply be timely filed of the provision of 37 CFF 1.136(s). In no event, however, may a reply be timely filed of this communication. If NO period for reply is particular to the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 139). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any searned patent term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filled on 02 January 2007. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1,4-7,10-13 and 16-18 is/are pending in the application. 4a) Of the above claim(s) none is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. Claim(s) is/are a
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12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No
3. Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
Attachment(s)
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Other:

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1, 4-7, 10-13, 16-18 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 4-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Sun et al. (U.S. Patent No. 2004/0253815).

Referring to figures 2, Sun et al. teach method of fabricating a gate, comprising the steps of:

providing a substrate (110, see figure 1a, glass substrate);

forming a patterned mask layer (120, photoresist) over the substrate (110, see figure 2), wherein the patterned mask layer (120)exposes an area on the substrate (110) for forming the gate (see figure 2, paragraph# 11, claim 12);

forming a metallic layer (130) over the mask layer (120) and inside the exposed area such that the metallic layer (130) formed over the mask layer (120) is apart from the metallic layer(130) formed inside the exposed area (see figure 2, paragraph# 16).

Forming an oxidation-resistant layer (140/150) on the metallic layer (130), wherein the oxidation-resistant layer (140/150) formed over the mask layer (120) is apart from the oxidation-resistant layer formed inside the exposed area (see figure 2, paragraph# 16); and

removing the mask layer ((see figure 2, paragraph# 16), wherein the metallic layer and the oxidation-resistant layer formed over the mask layer are removed at the same time and the metallic layer and the oxidation-resistant layer formed inside the exposed area is remained so as to form the gate (see claim 12).

Regarding to claim 4, the oxidation-resistant layer is selected from a group consisting of an alloy of metals and a metal silicide compound (see claims 9, 10).

Regarding to claims 5, 11, 17, wherein the step of forming the gate comprises performing a physical vapor deposition process (sputtering technique is PVD, see paragraph# 16, claim 5).

Regarding to claim 6, 12, 18, wherein the mask layer comprises a photoresist layer (120, see paragraph# 16).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7, 10-13, 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sun et al. (U.S. Patent No. 2004/0253815) as applied to claims 1, 4-6 above in view of Lee et al. (U.S. Patent Publication No. 2006/0163582).

Referring to figures 2, Sun et al. teach method of fabricating a gate, comprising the steps of:

providing a substrate (110, see figure 1a, glass substrate);

forming a patterned mask layer (120, photoresist) over the substrate (110, see figure 2), wherein the patterned mask layer (120)exposes an area on the substrate (110) for forming the gate (see figure 2, paragraph# 11, claim 12);

forming a metallic layer (130) over the mask layer (120) and inside the exposed area such that the metallic layer (130) formed over the mask layer (120) is apart from the metallic layer(130) formed inside the exposed area (see figure 2, paragraph# 16).

Forming an oxidation-resistant layer (140/150) on the metallic layer (130), wherein the oxidation-resistant layer (140/150) formed over the mask layer (120) is apart from the oxidation-resistant layer formed inside the exposed area (see figure 2, paragraph# 16); and

removing the mask layer ((see figure 2, paragraph# 16), wherein the metallic layer and the oxidation-resistant layer formed over the mask layer are removed at the same time and the metallic layer and the oxidation-resistant layer formed inside the exposed area is remained so as to form the gate (see claim 12),

forming an insulating layer (160, see paragraph# 16) over the gate (130/140/150).

Regarding to claim 4, the oxidation-resistant layer is selected from a group consisting of an alloy of metals and a metal silicide compound (see claims 9, 10).

Regarding to claims 5, 11, 17, wherein the step of forming the gate comprises performing a physical vapor deposition process (sputtering technique is PVD, see paragraph# 16, claim 5).

Regarding to claim 6, 12, 18, wherein the mask layer comprises a photoresist layer (120, see paragraph# 16).

However, the reference does not teach the step of forming a channel layer over the insulating layer above the gate, forming a source and a drain over the channel layer, and forming a passivation layer over the substrate, wherein the passivation layer has an opening that exposes a portion of the drain; and forming a pixel electrode over the passivation layer such that the pixel electrode is electrically connected to the drain via the opening. Nevertheless, the process is known in fabricating a thin film transistor as evidenced by Lee et al..

Referring to figures 5a-5b, 10-12, 15a-15c, Lee et al. teaches the step of forming a TFT device comprising the steps of: forming a channel layer (see paragraph# 111), over the insulating layer (30) above the gate (26), forming a source (65) and a drain (66) over the channel layer (see paragraph# 111), and forming a passivation layer (70) over the substrate, wherein the passivation layer (70) has an opening (76) that exposes a portion of the drain (66, see figure 5a); and forming

a pixel electrode (82, see figure 5a) over the passivation layer (70) such that the pixel electrode (82) is electrically connected to the drain (66) via the opening (70, see figure 5b).

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Therefore, it would have been obvious to a person of ordinary skill in the requisite art at the time of the invention was made would the step of forming the oxidation-resistant layer is selected from a group consisting of an alloy of metals and a metal silicide compound after forming the metallic layer, and forming a passivation layer over the substrate, wherein the passivation layer has an opening that exposes a portion of the drain; and forming a pixel electrode over the passivation layer such that the pixel electrode is electrically connected to the drain via the opening in process of Sun et al. in process of Lee et al. because the process is known the semiconductor art to fabricating a thin film transistor to provide superior adhesion ability to the substrate and diffusion resistance.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Nguyen whose telephone number is (571) 272-1695, or by Email via address Thanh. Nguyen@uspto.gov. The examiner can normally be reached on Monday-Thursday from 6:00AM to 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr., can be reached on (571) 272-1702. The fax phone number for this Group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to thy Private PAIR system, contact the Electronic Business center (EBC) at 866-217-9197 (toll-free).

> Thanh Nguyen Patent Examiner

Patent Examining Group 2800

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